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COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS

Sub-Committee of Experts on the Transport of Dangerous Goods
(Fifteenth session,
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agenda item 5)

MISCELLANEOUS DRAFT AMENDMENTS TO THE MODEL REGULATION ON THE TRANSPORT OF DANGEROUS GOODS

Transport of Peroxyacetic acid in IBCs and Tanks

Transmitted by the Observer from Finland

1. Introduction

The carriage of 3109, Peroxyacetic acid, Type F, stabilized, with a peroxyacetic acid concentration equal to or less than 43 % is allowed in accordance with the UN Recommendation, tenth revised edition (the list of peroxides permitted for transport in 2.5.3.2.4). In accordance with the packing instruction 521 (4.1.5.3) the transport of this substance is also permitted in IBCs of the Types 31H1, 31HA1 and 31A, provided that the concentration of the peroxiacetic acid does not exceed 17 %.

In the table "T34 Portable tank instructions" (4.2.4.2.6) many Organic peroxides , Type F liquid, with the UN number 3109 are allowed to be transported in tanks. However the figure 2.2 (b), FLOW CHART SCHEME FOR ORGANIC PEROXIDES, Exit F gives the impression that these Type F organic peroxides are not permitted for tank transport. See the asterisk on the bottom of the table. This mistake should be corrected by deleting the asterisk and the text . */

Organic peroxide formulations containing almost 40 per cent peroxyacetic acid have in laboratory tests been approved and classified as UN 3109, ORGANIC PEROXIDE, TYPE F, LIQUID. Some competent authorities in European countries have issued special licences for both the sea and the land transport of peroxyacetic acid in IBCs and in tanks under the special conditions. Until now no problems have arisen.

Since there is a need for both the sea and the land transport of Organic peroxide Type F, Liquid containing 43 % or less peroxyacetic acid in certain IBCs and in tanks, Finland proposes the following changes to the UN Recommendation:

2. Proposals

2.1 Intermediate Bulk Containers (IBCs)

4.1.5.3 Amend the text at the end of **PACKING INSTRUCTION 521, UN 3109, ORGANIC PEROXIDE, TYPE F, LIQUID:**

UN No	Organic peroxide	Type of IBC 1/	Maximum quantity (litres)	Control temperature 2/	Emergency temperature
3109	**ORGANIC PEROXIDE, TYPE F, LIQUID**				
	Peroxyacetic acid, stabilized, not more than 43 %	31 H1 31 HA1 31A	1500 1500 1500		

1/ See 6.5.3.4, bottom openings allowed.
2/ The temperatures are based on a non-insulated IBC.

Portable tank instructions

4.2.4.2.6 In portable tank instruction T-34, add the following new entry:

T34 PORTABLE TANK INSTRUCTION
This portable tank instruction applies to Division 5.2 organic peroxides. The general provisions of section 4.2.1 and the requirements of section 6.6.2 shall be met. The provisions specific to organic peroxides of Division 5.2 in 4.2.1.13 shall be met

UN No	Substance	Min.test pressure (bar)	Min. shell thickness (mm/ref. Steel)	Bottom opening requirements	Pressure relief requirements	Filling limits	Control temp.	Emerg. temp.
3109	PEROXYACETIC ACID, TYPE F, stabilized, ≤ 43 %	4	See 6.6.2.4.2	See 6.6.2.6.3	See 6.6.2.8.2 4.2.1.13.6 4.2.1.13.7 4.2.1.13.8	See 4.2.1.13.13		

Principles for classification of organic peroxides

2.5.3.3 Delete the asterisk after the text in Figure 2.2 (b), Exit F and the asterisk with the text "At present, organic peroxides may not be considered for transport in tanks."*/

*/ Note by the secretariat: This mistake has already been corrected. Refer to ST/SG/AC.10/1/Rev.10/Corr.2.